**Figure 1**

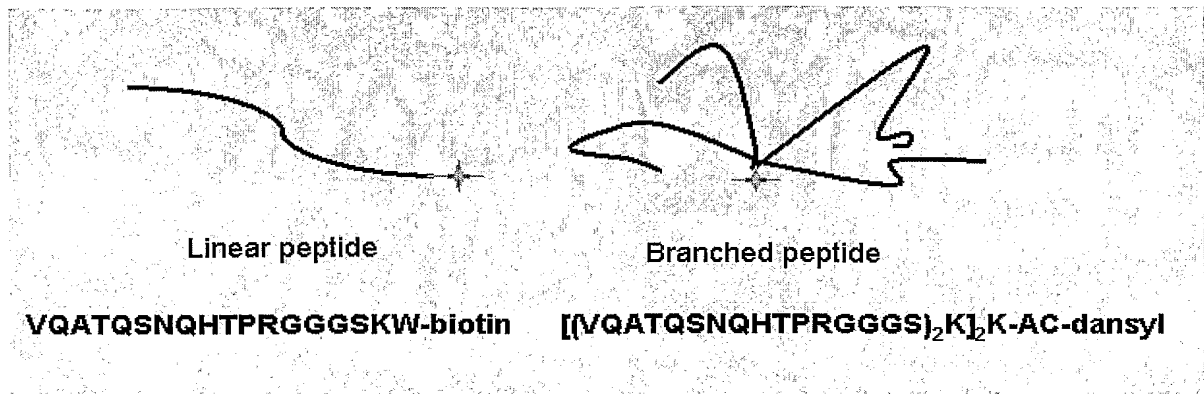


Figure 2

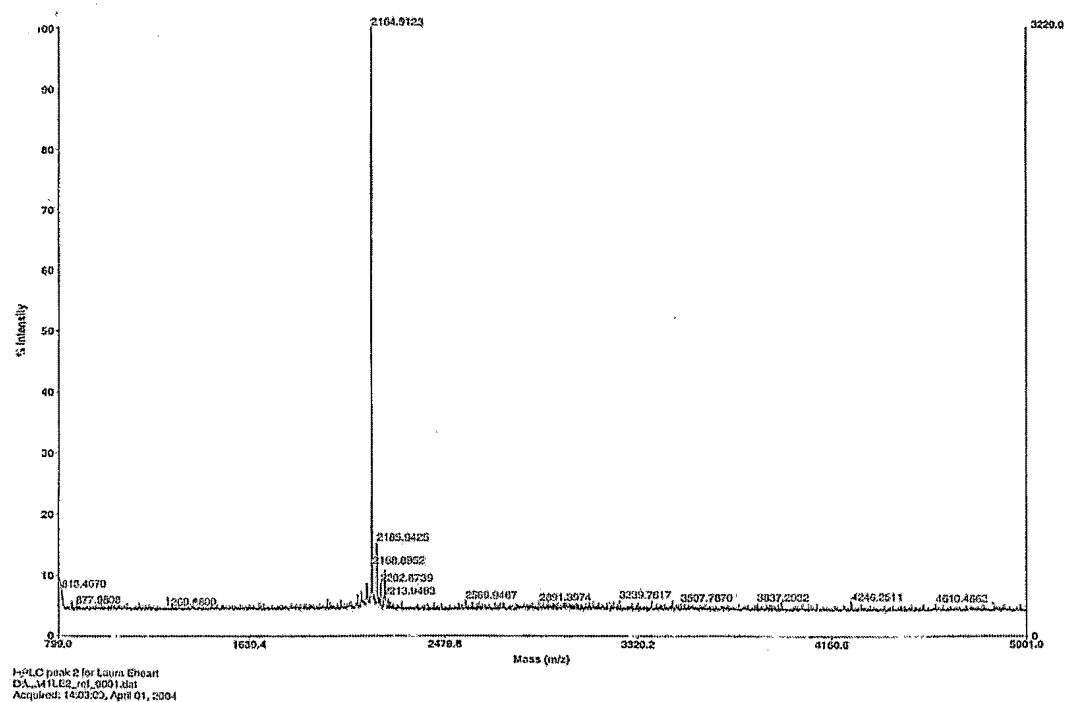


Figure 3

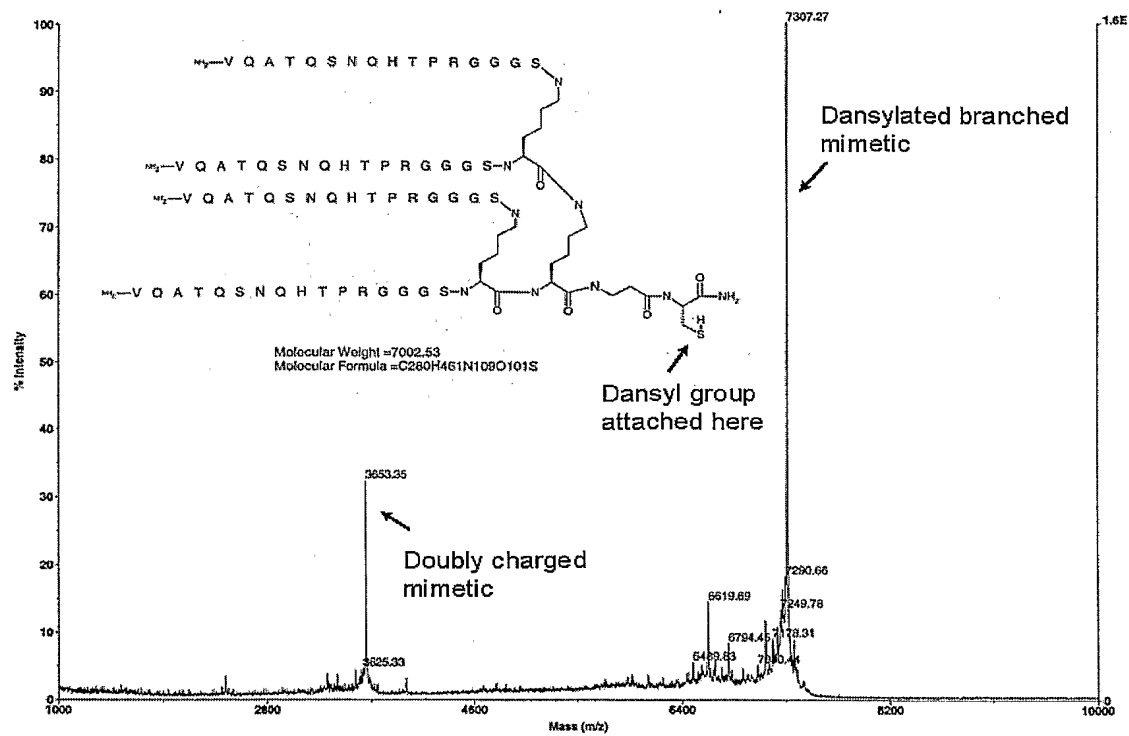


Figure 4.

**5-((((2-iodoacetyl)amino)ethyl)amino)naphthalene-1-sulfonic acid  
(1,5-IAEDANS)**

**Molecular Formula:** C<sub>14</sub>H<sub>15</sub>IN<sub>2</sub>O<sub>4</sub>S

**Molecular Weight:** 434.25

**CAS Number/Name:** 36930-63-9 / 1-Naphthalenesulfonic acid,  
5-((2-((iodoacetyl)amino)ethyl)amino)-

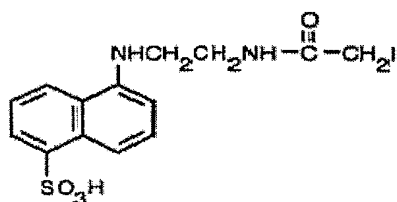


Figure 5

**Amino acid sequence of polypeptide encoded in sequence in capital letters in A.**

**Met**

LCADYSENTFTEYKKKLAERLKAKLPDATPQATQSNQHTPRGGGSELAKL  
VNHSDFA SNCCSINSPPLYCDSEIDAE LKNILHHHHHH

**Figure 6**

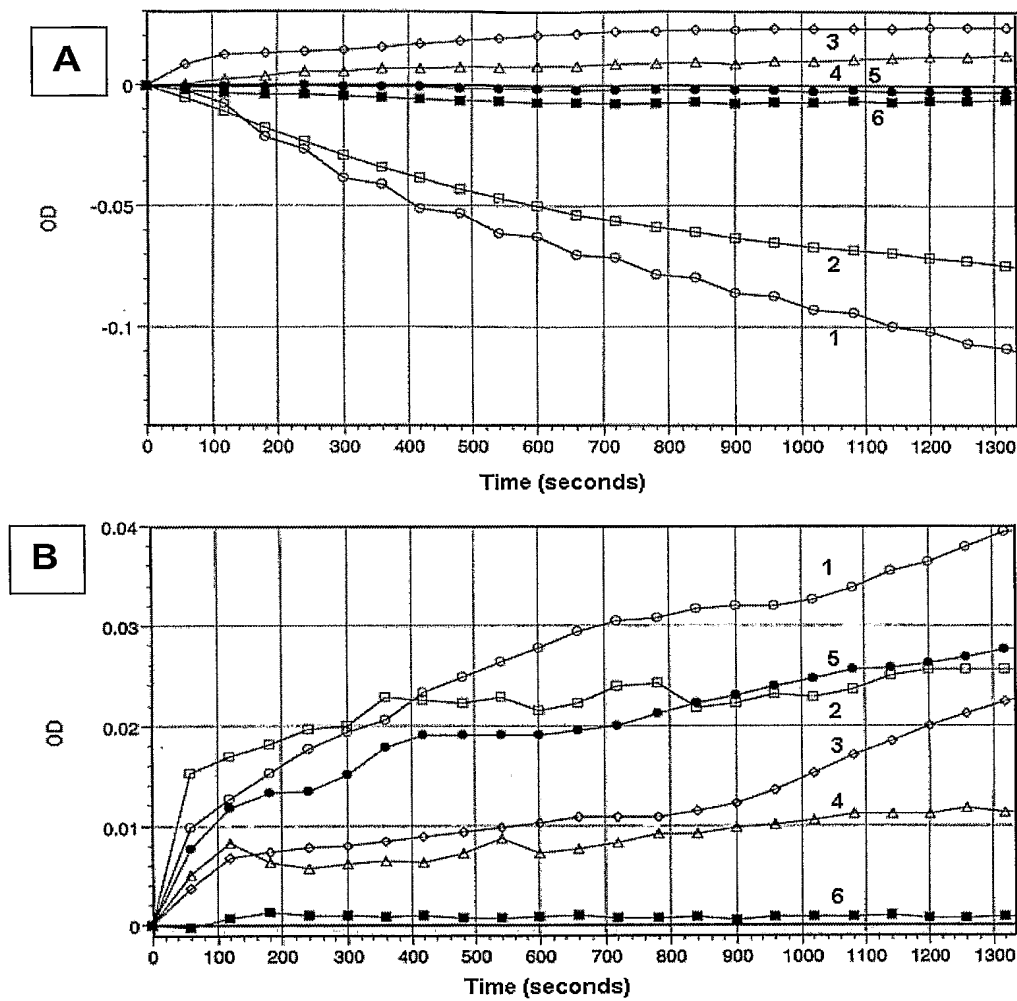


Figure 7

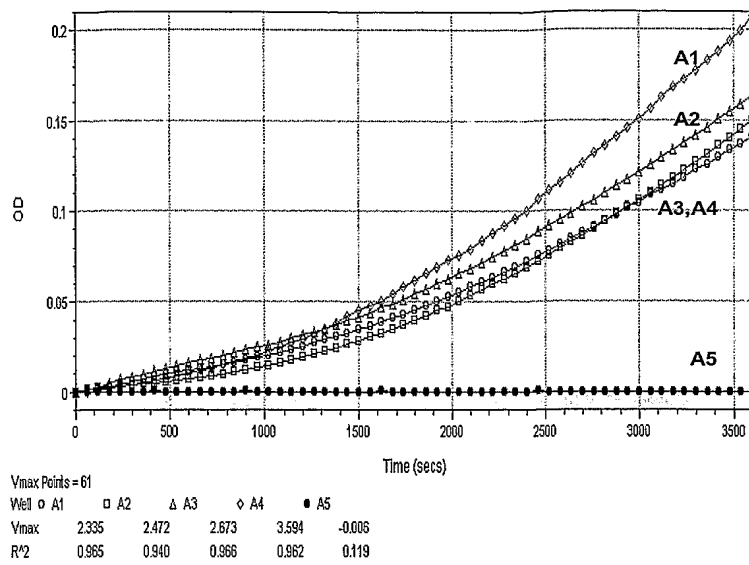


Figure 8



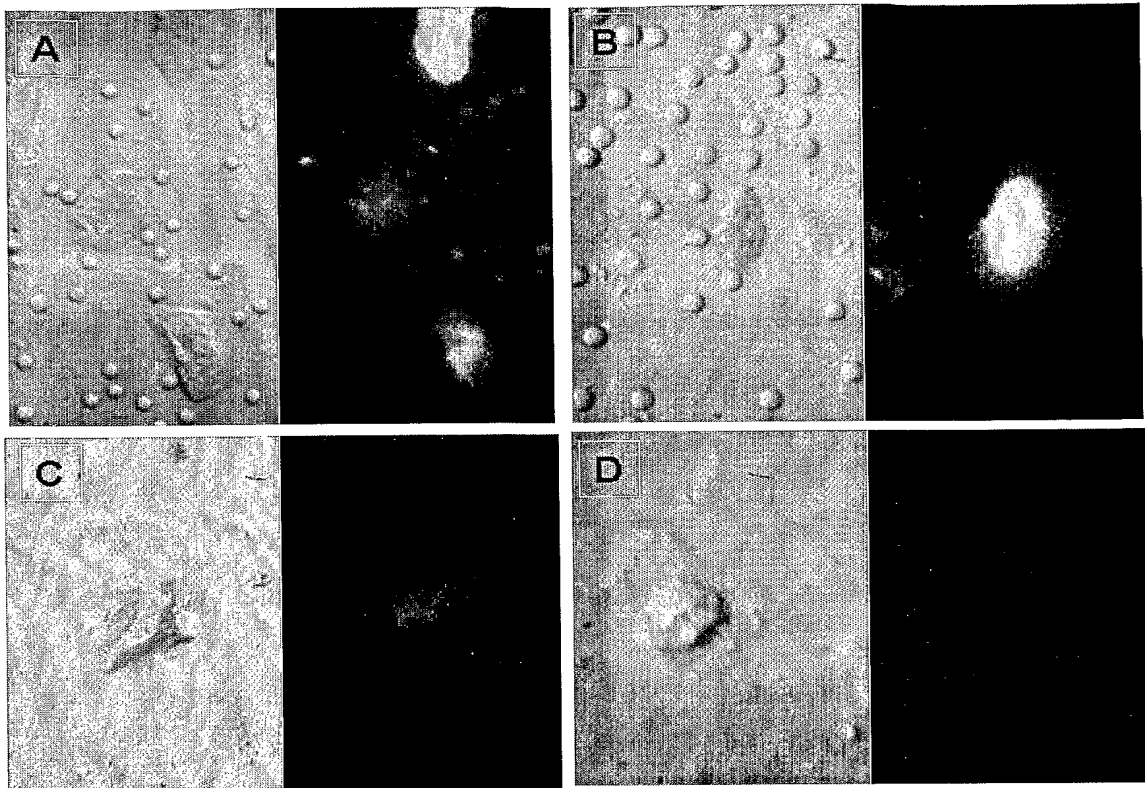


Figure 9

## SEQ ID NO: 29

Leu Cys Ala Asp Tyr Ser Glu Asn Thr Phe Thr Glu Tyr Lys Lys Lys  
1           5           10           15

Leu Ala Glu Arg Leu Lys Ala Lys Leu Pro Asp Ala Thr Pro Gln Ala  
20           25           30

Thr Gln Ser Asn Gln His Thr Pro Arg Gly Gly Gly Ser Glu Leu Ala  
35           40           45

Lys Leu Val Asn Lys His Ser Asp Phe Ala Ser Asn Cys Cys Ser Ile  
50           55           60

Asn Ser Pro Pro Leu Tyr Cys Asp Ser Glu Ile Asp Ala Glu Leu Lys  
65           70           75           80

Asn Ile Leu

Figure 10

## SEQ ID NO:31

Met Leu Cys Ala Asp Tyr Ser Glu Asn Thr Phe Thr Glu Tyr Lys Lys  
1           5           10           15

Lys Leu Ala Glu Arg Leu Lys Ala Lys Leu Pro Asp Ala Thr Pro Gln  
20           25           30

Ala Thr Gln Ser Asn Gln His Thr Pro Arg Gly Gly Gly Ser Glu Leu  
35           40           45

Ala Lys Leu Val Asn Lys His Ser Asp Phe Ala Ser Asn Cys Cys Ser  
50           55           60

Ile Asn Ser Pro Pro Leu Tyr Cys Asp Ser Glu Ile Asp Ala Glu Leu  
65           70           75           80

Lys Asn Ile Leu His His His His His His  
85           90

Figure 11